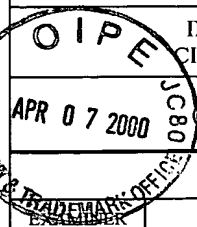


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(Use several sheets if necessary)				APPLICANT: MUKHOPADHYAY, Debasish		APPLICATION FILING DATE: 02/02/99	
						GROUP: 1723	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AF		3,721,621	03/73	Hough	210	22	
		3,870,033	03/75	Faylor, et al	126	360R	
		3,953,580	04/76	Allen, et al	423	283	
		3,964,999	06/76	Chisdes	210	23R	
		3,985,648	10/76	Casolo	210	27	
		4,182,676	10/80	Casolo	210	27	
		4,235,715	11/80	Wiegert	210	670	
		4,321,145	03/82	Carlso	210	678	
		4,430,226	02/84	Hegde, et al	210	638	
		4,523,045	07/85	Littmann	210	668	
AF		4,532,047	07/85	Dubin	210	698	
FOREIGN PATENT DOCUMENTS							
							TRANSLATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
		50-75987	06/21/75	Japan			
		50-88017	07/15/75	Japan			
		DE1792304	08/28/75	Germany			
		DE2607 737 A1	09/02/76	Germany			
		53/4777	01/17/78	Japan			
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)							
AF			Milstead, C.E. et al, "Rejection of Carbon Dioxide and pH Effects In Reverse Osmosis Desalination." Desalination (1971), pp. 217-223				
AF			Petersen, R.J., et al., "Industrial Applications of the FT-30 Reverse Osmosis Membrane." World Filtration Congress III, 1989, pp. 541-547.				
EXAMINER		A. [Signature]			DATE CONSIDERED		
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AF		4,548,716	10/85	Boeve	210	652	
		4,574,049	03/86	Pittner	210	639	
		4,698,153	10/87	Matsuzaki, et al	210	192	
		4,755,298	07/88	Grinstead	210	638	
		4,820,421	04/89	Auerswald	210	670	
		4,824,574	04/89	Cadotte, et al	210	654	
		4,900,450	02/90	Schmidt	210	679	
		4,917,806	04/90	Matsunaga, et al	210	662	
		4,969,520	11/90	Jan, et al	166	266	
✓		4,995,983	02/91	Eadie, et al	210	639	
AF		5,028,336	07/91	Bartels, et al	210	639	
FOREIGN PATENT DOCUMENTS							
							TRANSLATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
AF		54/69579	04/06/79	Japan			
AF		54/83688	07/03/79	Japan			
AF		56/139106	10/81	Japan			
AF		58/118538	07/15/83	Japan			
AF		58/122084	07/20/83	Japan			
		Sho 59-112890	06/29/84	Japan			
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)							
AF			Larson, R.E., et al., "Development of the FT-30 Thin-Film Composite Membrane," National Water Supply Improvement Association 9th Annual Conference and International Trade Fair, May 31- June 4, 1981.				
AF			Lee, Eric, K.L., "Novel Composite Membranes," April, 1983.				
EXAMINER <i>A. P. [Signature]</i>				DATE CONSIDERED <i>7/12/00</i>			
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AF ↓ AC		5,061,374	10/91	Lewis	210	638		
		5,073,268	12/91	Saito, et al	210	638		
		5,174,901	12/92	Smith	210	652		
		5,236,722	08/93	Schroeder	426	67		
		5,246,586	09/93	Ban, et al	210	638		
		5,250,185	10/93	Tao, et al	210	654		
		5,266,203	11/93	Mukhopadhyay, et al	210	638		
		5,292,439	03/94	Morita, et al	210	638		
		5,338,456	08/94	Stivers	210	652		
		5,358,640	10/94	Zeiher, et al	210	639		
	5,385,664	01/95	Oinuma, et al	210	151			
FOREIGN PATENT DOCUMENTS								
							TRANSLATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
		Sho 62-204892	09/09/87	Japan				
		Hei 2-207888	08/17/90	Japan				
		2-227185	09/10/90	Japan				
		*Hei 6-49191	06/29/94	Japan				
		DE 196 03 494.9-41	08/07/97	Germany				
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)								
AF			Crabbe, Daniel C.M., "A Double Pass Reverse Osmosis System, " September, 1976					
AF			Nakamura, Tadashi, "Seawater Desalination by Reverse Osmosis Process, " July/August, 1981.					
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A. Portman			7/12/00					
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AF		5,476,591	12/95	Green	210	638	
		5,529,689	06/96	Korin	210	232	
		5,571,419	11/96	Obata, et al	210	664	
		5,573,666	11/96	Korin	210	232	
		5,670,053	09/97	Collentro, et al	210	652	
		5,695,643	12/97	Brandt, et al	210	652	
AF		5,766,479	06/98	Collentro, et al	210	639	
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							TRANSLATION
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES NO
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)							
AF			Cadotte, J., "Evolution of Composite Reverse Osmosis Membranes," 1984.				
			1982 Report on Technological Development for Boiler Water by Reverse Osmosis, Exhibit Ko. No. 1., March, 1983, Fresh Water Generation Promotion Center, pp. 1-11, 45-97				
AF			Handbook of Water Purification, Editor Walter Lorch - London, MacGraw-Hill Cop. 1981, XVIII, 715 p. III.				
AF			Permassep Products Engineering Manual, E.I., du Pont de Nemours & Co., 1982.				
EXAMINER	H. P. [Signature]			DATE CONSIDERED		7/12/00	
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							TRANSLATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES NO	
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)								
<i>AF</i>			Applications for High-Purity-Water Production, Edited by Bipin S. Parekh, 1988.					
			Development of FT-30 Membranes in Spiral Wound Modules, October 1982					
<i>AF</i>			Crabbe, Daniel C.M., "A Double Pass Reverse Osmosis System," Industrial Water Engineering, Dec. 76/Jan 77.					
<i>AF</i>			Handbook of Membrane Technology, pp. 184-198, July 15, 1985.					
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							TRANSLATION	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
OTHER DOCUMENTS(Including Author, Title, Date, Pertinent Pages, etc.)								
<i>AK</i>			Handbook of Membrane Technology, pp. 26-28, July 15, 1983					
			Dyke, F.T., et al, "Removal of Salt, Oil, and Boron From Oil Field Wastewater By High pH Reverse Osmosis Processing", September, 1992					
<i>AF</i>			Tao, F.T., et al Conversion of Oilfield Produced Water Into An Irrigation/Drinking Quality Water					
			Aronovitch, H. et al, "Weakly Acidic Cation Performance Treating Water Containing High Iron" May/June 1995					
			Auerswald, D., "Optimizing the Performance of Reverse Osmosis/Continuous Electrodionization System" May/June, 1996					
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